

Hector IAP (ANG) Electric Distribution System

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J5 Hector IAP (ANG) Electric Distribution System

J5.1 Hector IAP (ANG) Overview

The 119th Fighter Wing, North Dakota Air National Guard (NDANG), is headquartered at Hector IAP in Fargo, N.D. on the north and west sides of the Fargo Municipal Airport. Its mission is to protect the air sovereignty of North America. The unit is equipped with the F-16 A/B Air Defense Fighter, and is tasked to mobilize, generate, deploy, and execute wartime missions under the direction of the North American Aerospace Defense Command. In peacetime, the Wing maintains continuous five minute alert through Langley Air Force Base, Virginia, and provides disaster relief, civic assistance, and other state missions directed by the Governor of North Dakota. Hector IAP contains 45 facilities within its 243 acre area. The normal base population is 331 personnel; however, twice a month during drills the population surges to 1063.

J5.2 Electric Distribution System Description

J5.2.1 Electric Distribution System Fixed Equipment Inventory

The Hector IAP (ANG) electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, protective devices, utility poles, ductbanks, switches, street lighting fixtures, and other ancillary fixed equipment. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

1. Equipment owned by Northern States Power (utility provider).
2. The government-owned co-generation plant.
3. All secondary meters.
4. Note: electric distribution to the barrier pits is off base and owned by NSP.

J5.2.1.1 Description

The electric distribution system at the Hector IAP (ANG) consists of 46,540 LF of underground cable. The cable is a 3 phase, 3 wire, 23,900v, not in conduit, shielded, full neutral cable buried at an average depth of 3 to 4 feet. Average monthly consumption is

521,612 MWH. The majority of the system is new, installed in 1998. The oldest part of the system was installed in 1988. All 30 transformers are oil-filled pad-mounted and range in installation dates from 1988 to 2000. There are six sectionalizing cabinets and 18-switch gear boxes all from 1998. Switchgear boxes have the R-TEMP oil to support low temperatures. The electric distribution system enters the base at a single entry point west of the motor pool, building 140. Northern States Power (NSP) owns the entry line (812 LF) from the point it crosses the base boundary to a master meter and the switch gear located at the government owned co-generation plant at building 148. The government owns all secondary meters located at 35 buildings. NSP reads the master meter and the government reads the secondary meters for reimbursable customers. There are no spare parts, specialized equipment or overhead equipment.

J5.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Hector IAP (ANG) electric distribution system included in the sale.

TABLE 1

Fixed Inventory

Electric Distribution System Hector IAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits and Ductbanks (3ph, 4w, conductor)	#1/0CU	10640	LF	1999
	#1/0CU	825	LF	1992
	#2/0AI	11600	LF	1992
	#2/0CU	15750	LF	1998
	#2/0CU	525	LF	1994
	#4/0AI	1625	LF	1989
	#4/0AI	1625	LF	1992
	#4/0AI	2600	LF	1994
	#4/0AI	525	LF	1991
	#10AI	825	LF	1992
1 PH Transformers	15 KVA	1	EA	1998
	25 KVA	4	EA	1998
3 PH Transformers	75 KVA	5	EA	1998
	112.5 KVA	5	EA	1998
	150 KVA	4	EA	1998
	225 KVA	3	EA	1998
	225 KVA	2	EA	1991
	225 KVA	1	EA	2000

Item	Size	Quantity	Unit	Approximate Year of Construction
	300 KVA	4	EA	1998
	480 KVA	1	EA	1998
Switchgear Boxes	Type L	18	EA	1996-2000

Notes:

AWG = American Wire Gauge

ea = each

lf = linear feet

KVA = nominal kilovolt-amperes

ph – phase

V = volts

w = wire

J5.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts

Electric Distribution System Hector IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools

Electric Distribution System Hector IAP (ANG)

Description	Quantity	Location	Maker
None			

J5.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4

Manuals, Drawings, and Records

Electric Distribution System Hector IAP (ANG)

Qty	Item	Description	Remarks
1	Chart	Distribution System	AUTOCAD
	Manuals will be in technical library		

J5.3 Specific Service Requirements

The service requirements for the Hector IAP (ANG) electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*.

J5.4 Current Service Arrangement

Electricity is provided by Northern States Power. Average monthly consumption is 521,612 MWH.

J5.5 Secondary Metering

J5.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J5.6 below.

TABLE 5

Existing Secondary Meters

Electric Distribution System Hector IAP (ANG)

Meter Location	Meter Description
All 35 secondary meters are government owned and excluded from this contract.	

J5.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J5.6 below.

TABLE 6

New Secondary Meters

Electric Distribution System Hector IAP (ANG)

Meter Location	Meter Description
None	

J5.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J5.7 Energy Saving Projects

IAW Paragraph C.3, Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J5.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Hector IAP (ANG) boundaries.

J5.9 Off-Installation Sites

No off-installation sites are included in the sale of the Hector IAP (ANG) electric distribution system.

J5.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Electric Distribution System Hector IAP (ANG)

Location	Description
None	

J5.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Hector IAP (ANG) electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through Sub-CLIN Projects. Renewal and Replacement projects will be recovered through Sub-CLIN A(y).

TABLE 8
System Deficiencies
Electric Distribution System Hector IAP (ANG)

Project Location	Project Description
	Although the following projects are not considered <i>system deficiencies</i> , they are included in this table to advise prospective offerors of future construction plans that may affect utility demand.
	Project Title: Repair Fire suppression/Detection systems in Hangars This project does not increase or decrease the utilities requirements.

Project Title: Repair/Construct Dining Hall
Construct 4636 SF dining hall space, includes the necessary general, electrical, mechanical, utility, and site work.

Project Title: Construct Line Shelters
Construct 12750 SF metal, drive-through aircraft line shelters including support utilities, fire suppression system and site work.

Project Title: Construct Igloo, MSA
Construct munitions storage igloo. Electrical utility to this off site is not in the scope of the privatization contract.

Project Title: Construct Readiness Addition, CE
Construct 2000 SF addition to include appurtenant interior, electrical, and mechanical work.

Project Title: Construct Communications Facility
Construct 3554 SF communications facility with collocated Central Security Control to include necessary general, electrical, mechanical, and appurtenant construction.

Project Title: Construct SRC/DCC Command Post
Construct 149 SM command post.

Project Title: Replace Weapons Release and Construct Mission Support Complex
Replace 26000 SF weapons facility, demolish building 300 at 5302 SF and building 214 at 4800 SF.

Project Title: Construct Covered Refueler Vehicle Parking
Construct metal structure with roof, 7200 SF

Project Title: Construct Storage Facility Building 216, Regional Training Site
Construct building 216, 19600 SF
Dismantle building 216, 8400 SF
Relocate building 216, 8400 SF
Upgrade building 216, 8400 SF
